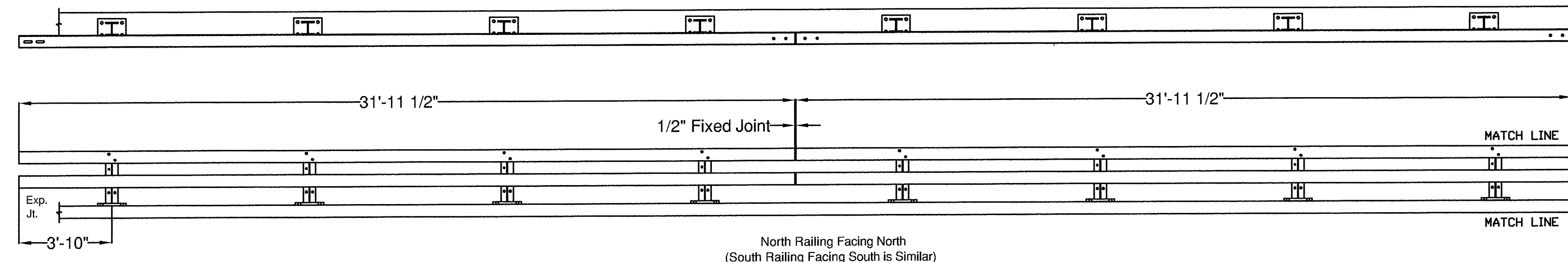
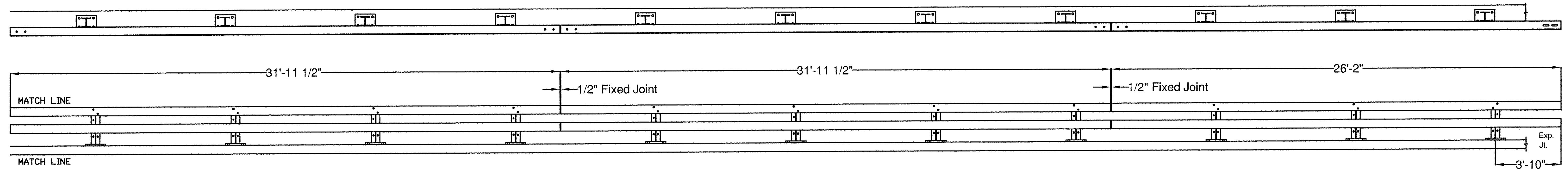


North Railing Facing North  
(South Railing Facing South is Similar)



North Railing Facing North  
(South Railing Facing South is Similar)



BILL OF MATERIAL		
QTY	DESCRIPTION	ASTM DESIGNATION
38	TWO RAIL POST @ 2'-3" O.A. (W6x25)	A572 Gr. 50
16	6" X 6" X 3/16" RAIL @ 31'-11 1/2"	A500 Gr. B
4	6" X 6" X 3/16" RAIL @ 26'-2"	A500 Gr. B
16	5" X 5" X 5/16" FIX. SPLICE TUBE @ 2'-3"	A500 Gr. B, A36
8	5" X 5" X 5/16" EXP. SPLICE TUBE @ 3'	A500 Gr. B, A36
38	3/8" X 10" X 14" ANCHOR PLATES	A36
152	Ø 1" X 18" FULL THREADED ANCHOR STUDS	A449
608	Ø 1" HEAVY HEX NUTS	A563
608	Ø 1" FLAT WASHERS	F436
76	Ø 7/8" X 8" ROUND HEAD BOLT, NUT, WASHER, L.W.	A449, A563, F436, ASME B18.21.1
38	Ø 3/4" X 8" HEX BOLT, NUT, (2) F.W., & L.W.	A325, A563, F436, & ASME B18.21.1
76	Ø 3/4" X 2-3/4" HEX BOLT, NUT, (2) F.W., & L.W.	A325, A563, F436, & ASME B18.21.1
96	Ø 3/4" X 7-1/2" HEX BOLT, NUT, & (2) F.W.	A325, A563, & F436
38	Ø 5/8" X 1-1/2" HEX BOLT, NUT, & (2) F.W.	A325, A563, & F436
38	L5" X 5" X 5/8" RAILING ANGLE	A572 Gr.50 CVN
10	DELINEATORS, 10 THICK (5 Each North & South)	Not to be Supplied by Elderlee, Inc.

- GENERAL NOTES:
- 1) ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 525 OF THE STANDARD SPECIFICATIONS.
  - 2) PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
  - 3) BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB).
  - 4) RAIL TUBE EXPANSION JOINTS SHALL BE PROVIDED IN ANY RAIL BAY SPANNING THE END OF AN INTEGRAL ABUTMENT BRIDGE AND AT ALL SUPER STRUCTURE EXPANSION JOINTS. EXPANSION JOINT WIDTH SHALL BE 4" @ 68°F AND WILL BE ADJUSTED IN THE FIELD BY THE ENGINEER FOR OTHER TEMPERATURES.
  - 5) RETROREFLECTIVE MATERIAL SHALL MEET THE REQUIREMENTS OF SUBSECTION 750.08 AND SHALL BE A .063" ALUMINUM BACKING WHITE OR YELLOW REFLECTOR. WHITE IS TO BE INSTALLED ON THE DRIVERS RIGHT. FOR ONE WAY BRIDGES, YELLOW IS TO BE INSTALLED ON THE DRIVERS LEFT.
  - 6) PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.
  - 7) THE MINIMUM DISTANCE FROM THE POST TO AN EXPANSION JOINT SHALL BE DETERMINED BY THE MINIMUM EDGE DISTANCE OF 5" FROM ANY ANCHOR STUD TO THE END OF THE SLAB, OR THE EXPANSION JOINT RECESS POUR, IF ONE IS USED.
  - 8) THE MAXIMUM CENTER TO CENTER SPACING OF BRIDGE RAIL POST IS 8' 3".
  - 9) STD. SPLICE HOLES ONLY IN BRIDGE RAIL TUBES. REST TO BE DRILLED BY CUSTOMER.

Vermont Agency of Transportation  
**RECEIVED**  
 CK'D BY M. LONGSTREET OK'D BY MCL  
 January 29, 2013  
 RESUBMIT NO. Approved  
 BY J. LACROIX DATE 01-30-2013

ITEM #: 900.640 GEN CONTR: F.R. Lafayette - Warren SHEET 1 OF 2

APPROVED BY: *Galvanized 2-Rail Curb Mounted Bridge Rail*

WARREN BR F 013-4 (14) VERMONT ROUTE 100 (MINOR ARTERIAL) - BR NO. 173  
 TOWN OF WARREN, WASHINGTON COUNTY, VT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	1/28/13	REVISED PER 12/12/12 MARK-UP	E.P.	E			

ELDERLEE, INC.  
 OAKS CORNERS, NEW YORK 14518  
 E-Mail: dlong@elderlee.com  
 Tel: 315-789-6670 Fax: 315-789-6615

CERTIFIED FABRICATOR

DRAWN	D.L.	12/05/12
CHECKED	E.P.	12/05/12
APPROVED	M.V.	
SCALE	SCHEMATIC	
DRAWING NO. FR Lafayette - WARREN-B		